

(12)特許協力条約に基づいて公開された国際出願

(19) 世界知的所有権機関  
国際事務局



(43) 国際公開日  
2004 年 4 月 29 日 (29.04.2004)

PCT

(10) 国際公開番号  
WO 2004/036326 A1

(51) 国際特許分類: G05B 19/418 (71) 出願人 (米国を除く全ての指定国について): 本田技研工業株式会社 (HONDA GIKEN KOGYO KABUSHIKI KAISHA) [JP/JP]; 〒107-8556 東京都港区南青山二丁目 1 番 1 号 Tokyo (JP).

(21) 国際出願番号: PCT/JP2003/013151

(22) 国際出願日: 2003 年 10 月 15 日 (15.10.2003)

(25) 国際出願の言語: 日本語 (72) 発明者; および

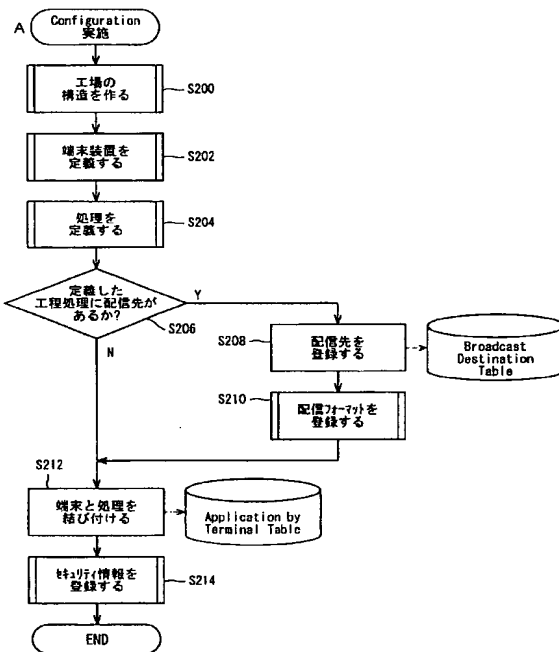
(26) 国際公開の言語: 日本語 (75) 発明者/出願人 (米国についてのみ): 佐々木 健児 (SASAKI, Kenji) [JP/JP]; 〒107-8556 東京都港区南青山二丁目 1 番 1 号 本田技研工業株式会社内 Tokyo (JP); 塚本 喜行 (TSUKAMOTO, Yoshiyuki) [JP/JP]; 〒107-8556 東京都港区南青山二丁目 1 番 1 号 本田技

(30) 優先権データ: PCT/JP02/10744 2002 年 10 月 16 日 (16.10.2002) JP

/続葉有/

(54) Title: STEP PROCESSING CONSTITUTION BUILDING/MANAGEMENT DEVICE IN A FACTORY PRODUCTION STEP MANAGEMENT SYSTEM

(54) 発明の名称: 工場の生産工程管理システムにおける工程処理構成の構築・管理装置



A...CONFIGURATION EXECUTION  
S200...CREATE FACTORY CONFIGURATION  
S202...DEFINE TERMINAL DEVICE  
S204...DEFINE PROCESSING  
S206...DELIVERY DESTINATION INCLUDED  
IN THE DEFINED STEP PROCESSING?  
S208...REGISTER DELIVERY DESTINATION  
S210...REGISTER DELIVERY FORMAT  
S212...CONNECT TERMINAL TO PROCESSING  
S214...REGISTER SECURITY INFORMATION

(57) Abstract: In a step processing constitution building/management device in a factory production step management system, configuration of a factory to which steps are introduced is hierarchically registered in a storage device of a management computer (server) (S200). A terminal computer and a device used for production are registered as terminal devices (S202). Among the task groups prepared in advance and stored on a disc, a task for realizing a work or a process to be performed in each step is selected for each step and registered in the order of execution (S204). The terminal devices are connected to definition information relating them (S212). When a terminal computer is started, according to the definition information registered, the registered task is executed on the management computer (server) to collect production result information. According to the collected result information, a production instruction is delivered to the device to produce a product. Thus, it is possible to significantly reduce the number of development steps and cost of the production step management system when constructing a factory as well as reduce the delivery period.

(57) 要約: 工場の生産工程管理システムにおける、工程処理構成の構築・管理装置において、管理用コンピュータ(サーバ)の記憶装置に工程などの導入先の工場の構造を階層的に登録すると共に(S200)、端末コンピュータと生産に使用されるデバイスを端末装置として登録し(S202)、予め作成されてディスクに保管されているタスク群の中から工程のそれぞれで行われるべき作業あるいは処理を実現するためのタスクを工程ごとに選択して実行すべき順に登録し(S204)、端末装置とそれに関連づける定義情報を結びつけ(S212)、端末コンピュータが起動されると、登録された定義情報に基づき、登録されたタスクを管理用コンピュータ(サーバ)

/続葉有/

WO 2004/036326 A1

## ABSTRACT

In an apparatus for generating and managing production processing structure in a production management system of a factory, the structure of factory made up of the names or other identifiers of process points obtained by subdividing the factory production line is hierarchically registered in the storage device of the management computer (server; S200), the terminal computers and devices used in production are registered as terminal devices (S202), and tasks (from among tasks generated in advance and stored in the disk of the management computer) for achieving the operation or processing to be implemented at the process points are selected for each process point and registered in the order of execution (S204), while linking the terminal devices with definition information that correlates them, once the terminal computers are activated, the registered tasks are executed by the management computer (server) based on the definition information thus registered, so that the production record information is accumulated, production instructions are distributed to the devices based on the accumulated production record information, such that the product is produced. With this, the number of man-hours and the costs of developing the production management system in building a factory can be significantly reduced, and the turnaround time can be shortened.